

Title: FRET PROTEASE ASSAYS FOR BOTULINUM SEROTYPE A/E TOXINS

Steward, Lance E., et al. Serial No. 09/942,024 Docket No. 066872-0017 Customer Number 41552

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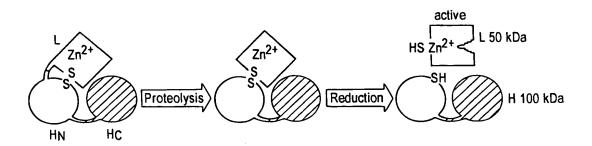


FIG. 1

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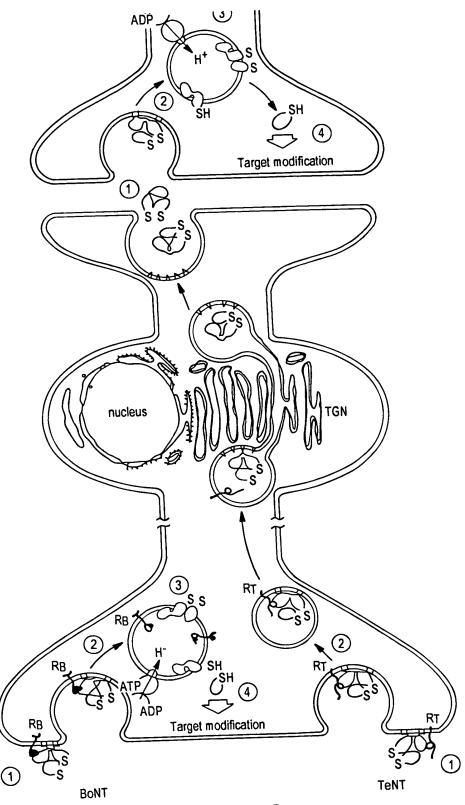


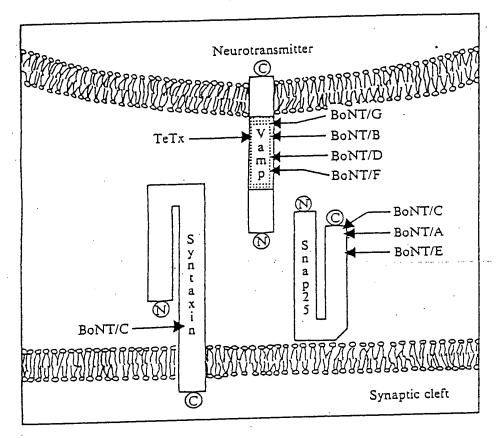
FIG. 2

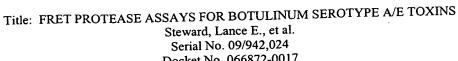


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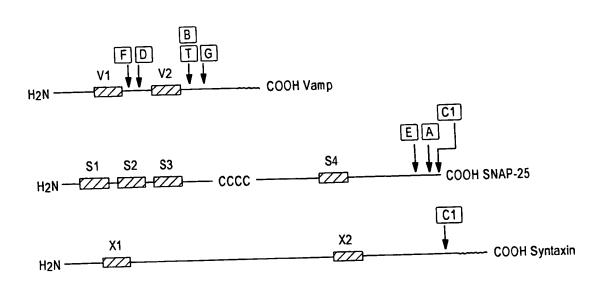


FIG. 4A

 $h \ominus \ominus xh \ominus xhp$

FIG. 4B

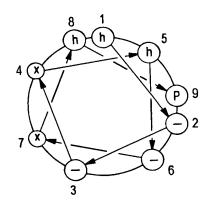
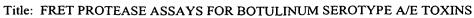


FIG. 4C



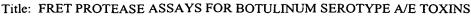
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1	150 KDMKEAEKNLTDLGKÆCGLCVCPCNKLKSSDPÅYKKAMGNNODGVVPS-OPARVVDEREOMAISGGFIRRVTN KDMKEAEKNLTDLGKÆCGLCVCPCNKLKSSDPÅYKKAMGNNODGVVPS-OPARVVDEREOMAISGGFIRRVTN ADMBEAEKNLTDLGMECGLCVLPCNKLKGSDDGTMKGNDDGKVMNOPGRVPDGRAMDGAMAQAGMIGRLTN KDMKEAEKNLTDLGMLCGLCPCPCNKLKGGGOSMGNNODGVVSS-OPARVVDEREOMAISGGFIRRVTN TDMREAEKNLTGLERCCGLCVCFWKKLGNFEKGDDYKKTWKGNDGGVVSS-OPARVVDEREOMAISGGFIRRVTN QDMKEAEKNLTGLERCCGLFTCPCNKLKSSDPÅYKKAMGNNODGVVPS-OPARVVDEREOMAISGGFIRRVTN	225 DARENEMDENLEQVSGI IGNLRHMALDMGNEIDTONROIDRIMEKADSNKIRIDEANORAIRWIGSG DARENEMDENLEQVSGI IGNLRHMALDMGNEIDTONROIDRIMEKADSNKIRIDEANORAIRWIGSG DAREDEMBENMGOWITMIGNLRMMALDMGSELENONROIDRIMRKGESNEARIAVANORAHOLILK DAREDEMDENLEQVSSI IGNLRHMALDMGNEIDTONROIDRIMDMADSNKIRIDEANORAHOLILK DAREDEMDENLEQVSSI IGNLRHMALDMGNEIDTONROIDRIMDMADSNKIRIDEANORAIRWIGSG DAREDEMDENLEQVSSI IGNLRHMALDMGNEIDTONROIDRIMEKASNEGRINSADKRAKNILRNK DARENEMDENLEQVSGI IGNLRHMALDMGNEIDTONROIDRIMEKIPIREGRINSADKRAKNILRNK	226
333333	(69) (69) (76) (69) (71) (69)	(140) (140) (148) (137) (146)	(207) (207) (213) (204) (213)
SNAP-25 Human SNAP-25 Mouse SNAP-25 Drosophila SNAP-25 Goldfish SNAP-25 Sea Urchin SNAP-25 Chicken	SNAP-25 Human SNAP-25 Mouse SNAP-25 Drosophila SNAP-25 Goldfish SNAP-25 Sea Urchin SNAP-25 Chicken	SNAP-25 Human SNAP-25 Mouse SNAP-25 Drosophila SNAP-25 Goldfish SNAP-25 Sea Urchin SNAP-25 Chicken	SNAP-25 Human SNAP-25 Mouse SNAP-25 Drosophila SNAP-25 Goldfish SNAP-25 Urchin SNAP-25 Chicken

FIG. 5



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<u>MSATAATJAPPAAPAGEGGPPAPPPNLTSNRRLQQTQAQVDEVVDIMRVNVDKVLERDQKLSELDDRADALQA</u> appaapageggppapppnltsnrrloctcacudevudimrvnvdkvlerdoklselddradaloa MSAPAQPHABGTEGTAPGI-GGPPGPPPNAMTSNRRLQQTQAQVBEVVDTJJRVNVDKVLERDQKLSELDDRADALQA ppaapageggppapppnltsnrrlqqtqaqvdevvdimrvnvdkvlerdqklselddradalqa PPOPAPSNIGRIQOTOAQVDEVVDIMRVNVDKVLERDO GASQFETNAGKLKRKYWWKNCKMMIILATITITULIIIIVAIVQSQKK GASOFESSAAKLKRKYWWKNCKMIMLGMICAIIVVVIIVIFFI GASQFETSAAKLKRKYWWKNLKMMIILGVICAIILIIIVYFSS GASOFETSAAKLKRKYWWKNLKMMIILGVICAIILIIIVYFST GASQFETSAAKLKRKYWWKNMKOMIIMGVICAIILIIIVYFST GASOFETSAAKLKRKYWWKNLKMMIILGVICAIILIIIVYFS MSATAAT MSATAAT 22222 (75) (73) (73) (73) (71) (57) VAMP Sea Urchin VAMP-1 HUMAN VAMP-2 HUMAN VAMP-2 MOUSE VAMP-2 HUMAN VAMP-2 MOUSE VAMP-1 HUMAN VAMP Bovine VAMP-2 Frog VAMP Bovine VAMP-2 Froq

VAMP Sea Urchin

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15 -MKDRITOELRITAK-DSDDDDDVAVITOD-RDREMDEFFEQVEEIRGFIDKIAENVEEVKAKHSAIIASPNPDEKTK -MKDRITOELRSAK-DSDDEBERY-WHVD-RDHFMDEFFEQVEEIRGCHEKLSPEDVEQVKKGHSAIIAAPNPDEKTK -MKDRITOELRITAK-DSDDDDDVIJVITVD-RDRFMDEFFEQVEEIRGFIDKIAENVEEVKRKHSAIIASPNPDEKTK MIKORLAALHAAGSDDEETEVAVMVDSHISYMDDFFRQVEEIRGMIDKVQDNVEEVKKKHSAIISAFPQTDEKTK MIKORLSALKAAGSEDEGDDMHMDTG-NAQYMEEFFEQVEEIRGSVDIIANVEEVKKKHSAIISMPVMDGKTK MIKORLSALKAAGSEDEGDDMHMDTG-SEKFMEEFFEQVEEIRGSVDIIANVEEVKKKHSAIISMPVMDGKTK	150 BELBELMSDIKKTANKVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQHSTLSRKFVEVMSEYNATQSDYRERCKG GELEDLIFADIKKTANKVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQHSTLSRKFVEVMTEYNATQSKYRDRCKD EELEELMSDIKKTANKVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQHSTLSRKFVEVMSEYNATQSDYRERCKG GELEDLMADIKKRANRVRGKLKGIEQNIEQEEQQMKSSADLRIRKTQHSTLSRKFVEVMTEYNRTQHDYRERCKG EELDELMAVIKRAANKVRGKLKULENALDHDEQG-AGNADLRIRKTQHSTLSRKFVEVMTDYNKTQHDYRERCKG DELEELMSDIKKTANKVRAKLKMEQSIEQEESAKMSADMRIRKTQHSTLSRKFVEVMTDYNGTDYRERCKG	225 RIQRQLETTGRTTTSEELEDMLESGNPAIFPSGIIMDSSISKOPISEIEIRHSEIIKLENSIRELHDMFWDMAML RIQRQLEITGRTTTNEELEDMLESGKIAIFTDDIKMDSQMTKCPLNEIEIRHNEIIKLETSIRELHDMFWDMAML RIQRQLEITGRTTTSEELEDMLESGNPAIFPSGIIMDSSISKOPISEIEIRHSEIIKLETSIRELHDMFWDMAML RIQRQLEITGRFTWDDELEKMLEESNSSVFTOSIIMETQAKQMADIEPRHODIMKLETSIKELHDMFWDMAML RIQRQLEITGRFTWDDELEKMLEESGNFSVFTOSIIMETQAKQMADIEPRHODIMKLESSIRELHDMFWDMAML RIQRQLEITGKSTTDAELEDMLESGNPSVFTOSIIMDTQAKQMLADIEPRHNDIMKLESSIRELHDMFWDMAML	293 VESQGEMIDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVILLGIVIASTVGGIEA VESQGEMIDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVILLGIVIASSIGGTLGL- VESQGEMIDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVVILGIIIASSIGGTLGL- VESQGEMIDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKKIMILLGTVLGILAIIASYVSSYEM VESQGEMIDRIEYNVEHAMDYVQTALGDTKKALKYQSKARRKKIMILLGTVLGILAASYVSSYEM VESQGEMIDRIEYNVEHAKEFVDRAVAPTKKAVQYQSKARRKKIGIILVTGVILITGILIASYVSSYEM VESQGEMIDRIEYNVEQSIVDYVETJAKMDTKKAVKYQSKARRKKFYIJAICGSVALGILVIVLIIVLA
666666	(73) (72) (73) (76) (75) (73)	(148) (147) (148) (151) (149)	(223) (222) (223) (226) (224) (223)
Syntaxin 1A human Syntaxin 1B2 human Syntaxin 1A mouse Syntaxin 1a drosophila Syntaxin A C. elegans	Syntaxin 1A human Syntaxin 1B2 human Syntaxin 1A mouse Syntaxin 1a drosophila Syntaxin A C. elegans	Syntaxin 1A human Syntaxin 1B2 human Syntaxin 1A mouse Syntaxin 1a drosophila Syntaxin A C. elegans	Syntaxin 1A human Syntaxin 1B2 human Syntaxin 1A mouse Syntaxin 1a drosophila Syntaxin A C. elegans Syntaxin Sea urchin